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OM protein - protein search, using sw mode!

Run on: November 10, 2004, 19:42:13 ; Search time 94.5 Seconds
 (without alignments)

Scoring table: BLASTM62

Title: US-09-882-434A-21

Perfect score: 427

Sequence: 1 SAFTWSPGCGNNRAEYRSK..... FGSSARACNPFGWKSIFIQC 76

Scoring table: BLASTM62

Gapext 10.0 , Gapext 0.5

Searched: 1566620 seqs, 353225886 residues

Total number of hits satisfying chosen parameters: 1566620

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:
 1: /cgn2_6/ptodata/1/pubpa/US07_PUBCOMB.pep:
 2: /cgn2_6/ptodata/1/pubpa/PCTUS_NEW_PUB.pep:
 3: /cgn2_6/ptodata/1/pubpa/US06_NEW_PUB.pep:
 4: /cgn2_6/ptodata/1/pubpa/US07_NEW_PUB.pep:
 5: /cgn2_6/ptodata/1/pubpa/US06_PUBCOMB.pep:
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 12: /cgn2_6/ptodata/1/pubpa/US09_NEW_PUB.pep:
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 14: /cgn2_6/ptodata/1/pubpa/US10B_PUBCOMB.pep:
 15: /cgn2_6/ptodata/1/pubpa/US10C_PUBCOMB.pep:
 16: /cgn2_6/ptodata/1/pubpa/US10D_PUBCOMB.pep:
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 18: /cgn2_6/ptodata/1/pubpa/US11_NEW_PUB.pep:
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 20: /cgn2_6/ptodata/1/pubpa/US60_PUBCOMB.pep:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

No.	Score	Query Match Length	DB ID	Description	%
1	427	100.0	76	9 US-09-882-434A-21	Sequence 21, Appl
2	423	99.1	76	9 US-09-882-434A-19	Sequence 19, Appl
3	421	98.6	76	9 US-09-882-434A-17	Sequence 17, Appl
4	420	98.4	76	9 US-09-882-434A-20	Sequence 20, Appl
5	417	97.7	102	9 US-09-882-434A-1	Sequence 1, Appl
6	416	97.4	76	9 US-09-882-434A-18	Sequence 18, Appl
7	413	96.7	76	9 US-09-882-434A-15	Sequence 15, Appl
8	413	96.7	76	9 US-09-882-434A-16	Sequence 16, Appl
9	168.5	39.5	116	17 US-10-425-115-251061	Sequence 251061,
10	81.5	19.1	500	15 US-10-424-539-214772	Sequence 214772,
11	72	16.9	68	17 US-10-425-115-303206	Sequence 303206,
12	72	16.9	174	15 US-10-424-539-253846	Sequence 253846,
13	71.5	16.7	486	9 US-09-801-368-154	Sequence 154, App

ALIGNMENTS

RESULT 1
 US-09-882-434A-21 ; Sequence 21, Application US/09882434A
 ; GENERAL INFORMATION:
 ; PATENT NO. US2002010814A1
 ; FILE REFERENCE: CULLN18.1CPLIC1
 ; CURRENT APPLICATION NUMBER: US/09/882,434A
 ; CURRENT FILING DATE: 2001-06-15
 ; PRIOR APPLICATION NUMBER: US/09/364395
 ; PRIOR FILING DATE: 1999-07-20
 ; PRIOR APPLICATION NUMBER: US/09/117615
 ; PRIOR FILING DATE: 1998-11-09
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00052
 ; PRIOR FILING DATE: 1997-01-11
 ; PRIOR APPLICATION NUMBER: AU PN 7802
 ; NUMBER OF SEQ ID NOS: 21
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 21
 ; LENGTH: 76
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Mi46K/54K variant. Variant MiAMP1 protein.
 ; OTHER INFORMATION: Mi46K/54K containing a Lysine at amino acid 46 and
 ; OTHER INFORMATION: a Lysine at amino acid 54.
 US-09-882-434A-21 ; Query Match Score 427; DB 9; Length 76;
 Best Local Similarity 100.0%; Pred. No. 2.7e-42;
 Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAFTWSSPGCNRRAERYSKCGCSAIHQKGGYDFSYTGTAAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSSPGCNRRAERYSKCGCSAIHQKGGYDFSYTGTAAALYNKAGCGVAKTRFGSS 60

QY 61 ARACNPFGMKSIFTQC 76
Db 61 ARACNPFGMKSIFTQC 76

RESULT 2
US-09-882-434A-19
Sequence 19, Application US/09882434A
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lynn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18_1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/3643395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; LENGTH: 76
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 19
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Mi54K variant. Variant MiAMP1 protein Mi54K
; OTHER INFORMATION: containing a Lysine at amino acid 54 (used primer
; OTHER INFORMATION: from SEQ ID NO:12 to produce).
; US-09-882-434A-19

Query Match 99.1%; Score 423; DB 9; Length 76;
Best Local Similarity 98.7%; Pred. No. 7.8e-42; Indels 0; Gaps 0;
Matches 75; Conservative 1; Mismatches 0; Delins 0; Gaps 0;

QY 1 SAFTWSSPGCNRRAERYSKCGCSAIHQKGGYDFSYTGTAAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSSPGCNRRAERYSKCGCSAIHQKGGYDFSYTGTAAALYNQAGCGVAKTRFGSS 60

QY 61 ARACNPFGMKSIFTQC 76
Db 61 ARACNPFGMKSIFTQC 76

RESULT 3
US-09-882-434A-17
Sequence 17, Application US/09882434A
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lynn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18_1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/3643395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09

Query Match 98.4%; Score 420; DB 9; Length 76;
Best Local Similarity 98.7%; Pred. No. 1.8e-41; Indels 0; Gaps 0;
Matches 75; Conservative 0; Mismatches 1; Delins 0; Gaps 0;

QY 1 SAFTWSSPGCNRRAERYSKCGCSAIHQKGGYDFSYTGTAAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSSPGCNRRAERYSKCGCSAIHQKGGYDFSYTGTAAALYNQAGCGVAKTRFGSS 60

QY 61 ARACNPFGMKSIFTQC 76
Db 61 ARACNPFGMKSIFTQC 76

RESULT 5
 Sequence 1, Application US/09882434A
 i Patent No. US2002108144A1
 i GENERAL INFORMATION:
 i APPLICANT: Manners, John M.
 i APPLICANT: Marcus, John Paul
 i APPLICANT: Gouler, Kenneth C.
 i APPLICANT: Green, Jodie Lyn
 i TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
 i FILE REFERENCE: CULN18.1CPI1C1
 i CURRENT APPLICATION NUMBER: US/09/882,434A
 i CURRENT FILING DATE: 2001-06-15
 i PRIOR APPLICATION NUMBER: 09/364395
 i PRIOR FILING DATE: 1999-07-30
 i PRIOR APPLICATION NUMBER: 09/117615
 i PRIOR FILING DATE: 1998-11-09
 i PRIOR APPLICATION NUMBER: PCT/AU97/00052
 i PRIOR FILING DATE: 1997-01-31
 i PRIOR APPLICATION NUMBER: AU PN 7802
 i NUMBER OF SEQ ID NOS: 21
 i SOFTWARE: FastSEQ for Windows Version 4.0
 i SEQ ID NO 1
 i LENGTH: 102
 i TYPE: PRT
 i ORGANISM: Macadamia integrifolia
 US-09-882-434A-1

Query Match 97.7%; Score 417; DB 9; Length 102;
 Best Local Similarity 97.4%; Pred. No. 5.4e-41;
 Matches 74; Conservative 1; Mismatches 0; Gaps 0;

Qy 1 SAFTVWSGPGCNNRAERYSKCGCSAITHQKGGYDFSYTGTAALYNKAGSGVAKTRFSS 60
 Db 27 SAFTVWSGPGCNNRAERYSKCGCSAITHQKGGYDFSYTGTAALYNQAGCSGAHTRFSS 86

Qy 61 ARACNPFGWKSIFIQC 76
 Db 87 ARACNPFGWKSIFIQC 102

RESULT 6
 Sequence 1.8, Application US/09882434A
 i Patent No. US2002108144A1
 i GENERAL INFORMATION:
 i APPLICANT: Manners, John M.
 i APPLICANT: Marcus, John Paul
 i APPLICANT: Gouler, Kenneth C.
 i APPLICANT: Green, Jodie Lyn
 i TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
 i FILE REFERENCE: CULN18.1CPI1C1
 i CURRENT APPLICATION NUMBER: US/09/882,434A
 i CURRENT FILING DATE: 2001-06-15
 i PRIOR APPLICATION NUMBER: 09/364395
 i PRIOR FILING DATE: 1999-07-30
 i PRIOR APPLICATION NUMBER: 09/117615
 i PRIOR FILING DATE: 1997-01-09
 i NUMBER OF SEQ ID NOS: 21
 i SOFTWARE: FastSEQ for Windows Version 4.0
 i SEQ ID NO 18
 i LENGTH: 76
 i TYPE: PRT
 i ORGANISM: Artificial Sequence
 i FEATURE: OTHER INFORMATION: Variant Mi54V protein Mi54V

Query Match 96.7%; Score 413; DB 9; Length 76;
 Best Local Similarity 96.1%; Pred. No. 1.2e-40;
 Matches 73; Conservative 2; Mismatches 1; Gaps 0;

Qy 1 SAFTVWSGPGCNNRAERYSKCGCSAITHQKGGYDFSYTGTAALYNKAGSGVAKTRFSS 60
 Db 1 SAFTVWSGPGCNNRAERYSKCGCSAITHQKGGYDFSYTGTAALYNQAGCSGAHTRFSS 60

Qy 61 ARACNPFGWKSIFIQC 76
 Db 61 ARACNPFGWKSIFIQC 76

RESULT 8
 Sequence 1.6, Application US/09882434A
 i Patent No. US2002108144A1
 i GENERAL INFORMATION:
 i APPLICANT: Manners, John M.
 i APPLICANT: Marcus, John Paul
 i APPLICANT: Gouler, Kenneth C.
 i APPLICANT: Green, Jodie Lyn
 i TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN

FILE REFERENCE: CULIN18.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIORITY NUMBER: 09/364395
; PRIORITY NUMBER: 1999-07-30
; PRIORITY NUMBER: 09/117615
; PRIORITY NUMBER: 1998-11-09
; PRIORITY NUMBER: PCT/AU97/00052
; PRIORITY NUMBER: 1997-01-31
; PRIORITY NUMBER: AU PN 7802
; PRIORITY NUMBER: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Mi39K variant. Variant MiAMP1 protein Mi39K
; OTHER INFORMATION: containing a Lysine at amino acid 39 (used primer)
; OTHER INFORMATION: from SEQ ID NO:9 to produce).
US-09-882-434A-16

Query Match 96.7%; Score 413; DB 9; Length 76;
Best Local Similarity 96.1%; Pred. No. 1.2e-40;
Matches 73; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SAFTWSSPGCGCNRAERYSKCGCSAIIHQKGGYDFSTGQTAALYNKGCGSGVAKTRFGSS 60
Db 1 SAFTWSSPGCGCNRAERYSKCGCSAIIHQKGGYDFSTGQTAALYNKGCGSGVAKTRFGSS 60

Qy 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

RESULT 9
US-10-425-115-251061
; Sequence 251061, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants
; FILE REFERENCE: 38-21 (5222) B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 363326
; SEQ ID NO 251061
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_160554C.1.pep
US-10-425-115-251061

Query Match 39.5%; Score 168.5; DB 17; Length 116;
Best Local Similarity 38.8%; Pred. No. 7.9e-12;
Matches 31; Conservative 12; Mismatches 32; Indels 5; Gaps 2;

Qy 1 SAFTWSSPGCGCNRAERYSKCGCSAIIHQKGGYDFSTGQTAALYNKGCGSGVAKTRFGSS 56
Db 38 SYLTNSGGPGTTGKHTIASAGSCGCNHLRPHGHEFNERGETATLYSQPGCVTPYQV 97

Qy 57 FGSSARACNPFGWKSIFIQC 76
Db 98 F-EDTQACGDFGWHSIHDC 116

RESULT 10

RESULT 12
*i Sequence 253446, Application US/10424599
 i Publication No. US2004031072A1
 i GENERAL INFORMATION:
 i APPLICANT: La Rosa, Thomas J
 i APPLICANT: Kovalic, David K
 i APPLICANT: Zhou, Yinhua
 i APPLICANT: Cao, Yongwei
 i TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 i TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 i FILE REFERENCE: 38-21153223 B
 i CURRENT APPLICATION NUMBER: US/10/424,599
 i CURRENT FILING DATE: 2003-04-28
 i NUMBER OF SEQ ID NOS: 285684
 i SEQ ID NO: 253446
 i LENGTH: 174
 i TYPE: PRT
 i ORGANISM: Glycine max
 i FEATURE:
 i OTHER INFORMATION: Clone ID: PAT_MRT3847_71246C.1.pep
 i US-10-424-599-253446*

Query Match 16.9%; Score 72; DB 15; Length 174;
 Best Local Similarity 42.4%; Pred. No. 2.4;
 Matches 14; Conservative 7; Mismatches 12; Indels 0; Gaps 0;

Qy 14 RAERYSKCGCSAIHQKGYYDFSYTGQTAALYNK 46
 Db 56 RAARLUSVCGVAIICKKGKTAHVGADGSVFNK 88

RESULT 13
*i Sequence 154, Application US/09801368
 i Patent No. US20020128250A1
 i GENERAL INFORMATION:
 i APPLICANT: Bussy, Robert
 i APPLICANT: Cali, Brian
 i APPLICANT: Hecht, Peter
 i APPLICANT: Holtzman, Doug
 i APPLICANT: Madden, Kevin
 i APPLICANT: Maxon, Mary
 i APPLICANT: Milne, Todd
 i APPLICANT: No, US20020128250A1
 i APPLICANT: Royer, John
 i APPLICANT: Salama, Sofie
 i APPLICANT: Sherman, Amir
 i APPLICANT: Silva, Jeff
 i APPLICANT: Summers, Eric
 i TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
 i FILE REFERENCE: 109272-147
 i CURRENT APPLICATION NUMBER: US/09/801,368
 i PRIORITY FILING DATE: 2001-03-07
 i PRIORITY APPLICATION NUMBER: US 09/487,558
 i PRIOR FILING DATE: 2000-01-19
 i PRIOR APPLICATION NUMBER: US 6/160,587
 i PRIOR FILING DATE: 1999-10-20
 i NUMBER OF SEQ ID NOS: 440
 i SOFTWARE: PatentIn version 3.0
 i SEQ ID NO: 154
 i LENGTH: 486
 i TYPE: PRT
 i ORGANISM: Saccharomyces cerevisiae
 i US-09-801-368-154*

Query Match 16.7%; Score 71.5; DB 9; Length 486;
 Best Local Similarity 31.7%; Pred. No. 8;
 Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

Qy 14 RAERYSKCGCSAIHQKGYYDFSYTGQTAALYNKAGCSVAKTRFGSSARACNP---FGW 69
 Db 89 KKCRHHTQVWRNSVRLGGGRARCNNGW-WFISC 122

Fri Nov 12 11:02:10 2004

us-09-882-434a-21.rapp

Page 6

Job time : 94.5 secs

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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:34:00 ; Search time 28 Seconds
(without alignments)
180.006 Million cell updates/sec

Title: US-09-882-434A-21
Perfect score: 427
Sequence: 1 SAFTYWSGPGCNNRAERYSK.....FGSSARACNPFGWKSIFIQC 76

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:
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* 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	75.5	17.7	486	1	US-07-872-678A-48	Sequence 48, Appl
2	73	17.1	491	4	US-09-248796A-17049	Sequence 17049, Appl
3	71.5	16.7	486	4	US-08-163613A-2	Sequence 2, Appl
4	71.5	16.7	486	4	US-08-622-191-8	Sequence 8, Appl
5	68	15.9	486	4	US-08-622-191-7	Sequence 7, Appl
6	67.5	15.8	459	4	US-09-323-352-4648	Sequence 4648, Appl
7	67.5	15.8	585	4	US-09-620-4120-337	Sequence 337, Appl
8	67.5	15.8	585	4	US-09-598-419-337	Sequence 337, Appl
9	67.5	15.8	1752	4	US-09-877-180	Sequence 180, Appl
10	67.5	15.8	1752	4	US-09-620-412C-180	Sequence 180, Appl
11	67.5	15.8	1752	4	US-09-598-419-180	Sequence 180, Appl
12	66	15.5	459	4	US-09-252-991A-1974	Sequence 28403, Appl
13	66	15.5	856	4	US-09-639-262A-13	Sequence 13, Appl
14	66	15.5	977	4	US-09-252-991A-16655	Sequence 16655, Appl
15	65.5	15.3	111	2	US-07-857-224B-97	Sequence 105, Appl
16	65.5	15.3	135	2	US-07-857-224B-97	Sequence 97, Appl
17	65.5	15.3	135	2	US-07-857-224B-98	Sequence 98, Appl
18	65.5	15.3	312	4	US-09-252-991A-1974	Sequence 19374, Appl
19	65.5	15.3	908	4	US-08-714-741-44	Sequence 44, Appl
20	65	15.2	176	4	US-09-270-767-33555	Sequence 33555, Appl
21	65	15.2	176	4	US-09-270-767-48772	Sequence 48772, Appl
22	63.5	14.9	1019	1	US-08-236-014A-4	Sequence 4, Appl
23	63.5	14.9	1019	2	US-08-596-405-4	Sequence 4, Appl
24	63.5	14.9	1019	2	US-08-877-620-4	Sequence 4, Appl
25	63.5	14.9	1019	4	US-09-287-368-4	Sequence 4, Appl
26	63.5	14.9	1019	4	US-09-626-795-4	Sequence 4, Appl
27	63.5	14.9	1083	1	US-08-236-014A-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-07-872-678A-48
; Sequence 48, Application US/07872678A
; Patent No. 5541060
; GENERAL INFORMATION:
; APPLICANT: Bell, Graeme, et al.
; TITLE OF INVENTION: DETECTION OF EARLY-ONSET
; NUMBER OF INVENTION: NON-INSULIN-DEPENDENT DIABETES MELLITUS
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: Post Office Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/872, 678A
; FILING DATE: 22-APR-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coughlin, Daniel F.
; REGISTRATION NUMBER: 36,111
; REFERENCE/DOCKET NUMBER: ARCD016
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEX: 713-789-2679
; TELLEX: 79-0924
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 486 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA (genomic)
; US-07-872-678A-48
Query Match 17.7%; Score 75.5; DB 1; Length 486;
Best Local Similarity 39.3%; Pred. No. 0.79;
Matches 24; Conservative 18; Indels 15; Gaps 4;
Qy 14 RAERYSKCGCSAIHQKGYDESYTGTAALYNKAGSGVAKTRF-SSSARACNP---FG 68
Db 391 RAARLSSVGTAAICQRGYK---DGSVSTRYPGFKERANALKDIYG 440

RESULT 2
 US-09-248-796A-17049
 ; Sequence 17049, Application US/09248796A
 ; GENERAL INFORMATION:
 ; Patent No. 6747137
 ; APPLICANT: Keith Weinstock et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
 ; CURRENT APPLICATION NUMBER: FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 107196-132
 ; CURRENT FILING DATE: 1999-02-12
 ; PRIORITY APPLICATION NUMBER: US 60/09/248,796A
 ; PRIOR FILING DATE: 1998-02-13
 ; PRIORITY APPLICATION NUMBER: US 60/096,409
 ; PRIOR FILING DATE: 1998-08-13
 ; NUMBER OF SEQ ID NOS: 28208
 ; SEQ ID NO 17049
 ; LENGTH: 491
 ; TYPE: PRT
 ; ORGANISM: Candida albicans
 US-09-248-796A-17049

Query Match 69 W 69 |
 Db 441 W 441 |

CURRENT FILING DATE: 1996-03-25
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: Fastseq for Windows Version 4.0
 ; SEQ ID NO 8
 ; LENGTH: 486
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 US-08-622-191-8

Query Match 16.7%; Score 71.5; DB 4; Length 486;
 Best Local Similarity 31.7%; Pred. No. 2.4;
 Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;
 SEQ ID NO 14
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 US-08-622-191-8

RESULT 5
 US-08-622-191-7
 ; Sequence 7, Application US/08622191A
 ; Patent No. 6632602
 ; GENERAL INFORMATION:
 ; APPLICANT: Sheen, Jen
 ; APPLICANT: Jang, Jyan-Chyun
 ; TITLE OF INVENTION: PLANT SUGAR SENSORS AND USES THEREOF
 ; FILE REFERENCE: 00786/3/07001
 ; CURRENT APPLICATION NUMBER: US/08/622,191A
 ; CURRENT FILING DATE: 1996-03-25
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: Fastseq for Windows Version 4.0
 ; SEQ ID NO 7
 ; LENGTH: 486
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 US-08-622-191-7

Query Match 15.9%; Score 68; DB 4; Length 486;
 Best Local Similarity 42.4%; Pred. No. 6.2;
 Matches 14; Conservative 5; Mismatches 14; Indels 0; Gaps 0;
 SEQ ID NO 14
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 US-08-622-191-7

RESULT 6
 US-09-328-352-4648
 ; Sequence 4648, Application US/09328352
 ; Patent No. 6563958
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary L. Breton et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
 ; CURRENT APPLICATION NUMBER: US/09/328,352
 ; CURRENT FILING DATE: 1999-06-04
 ; NUMBER OF SEQ ID NOS: 8252
 ; SEQ ID NO 4648
 ; FILE REFERENCE: GTIC9-03PA
 ; CURRENT APPLICATION NUMBER: US/09/328,352
 ; SEQ ID NO 4648
 ; LENGTH: 459
 ; TYPE: PRT
 ; ORGANISM: Acinetobacter baumannii
 US-09-328-352-4648

Query Match 15.8%; Score 67.5; DB 4; Length 459;
 Best Local Similarity 33.3%; Pred. No. 6.6;
 Matches 18; Conservative 6; Mismatches 19; Indels 11; Gaps 2;
 SEQ ID NO 17
 ; TYPE: PRT
 ; ORGANISM: Acinetobacter baumannii
 US-09-328-352-4648

RESULT 4
 US-08-622-191-8
 ; Sequence 8, Application US/08622191A
 ; Patent No. 6632602
 ; GENERAL INFORMATION:
 ; APPLICANT: Sheen, Jen
 ; APPLICANT: Jang, Jyan-Chyun
 ; TITLE OF INVENTION: PLANT SUGAR SENSORS AND USES THEREOF
 ; FILE REFERENCE: 00786/3/07001
 ; CURRENT APPLICATION NUMBER: US/08/622,191A

RESULT 7
US-09-620-412C-337
; Sequence 337, Application US/09620412C
; Patent No. 6448234
; GENERAL INFORMATION:
; APPLICANT: Steven P. Fling
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND FILE REFERENCE: 210121.469C7
; CURRENT APPLICATION NUMBER: US/09/620,412C
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
; SEQ ID NO: 337
; LENGTH: 585
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-09-620-412C-337

Query Match 15.8%; Score 67.5; DB 4; Length 585;
Best Local Similarity 35.1%; Pred. No. 8.8;
Matches 20; Conservative 5; Mismatches 29; Indels 3; Gaps 1;

Qy 18 YSKCGCSAIHQKGYDFSYTGQTAALYNKAGSGVAKTRFGS --SARACNPGWKS 71
Db 164 YSKQGGGALLYVEGGINFODLEBIRIKYNKAGTFETKILPSLKAQASAGNADAWAS 220

RESULT 8
US-09-598-419-337
; Sequence 337, Application US/09598419
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND FILE REFERENCE: 210121.469C6
; CURRENT APPLICATION NUMBER: US/09/598,419
; CURRENT FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 357
; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
; SEQ ID NO: 337
; LENGTH: 585
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-09-598-419-337

Query Match 15.8%; Score 67.5; DB 4; Length 585;
Best Local Similarity 35.1%; Pred. No. 8.8;
Matches 20; Conservative 5; Mismatches 29; Indels 3; Gaps 1;

Qy 18 YSKCGCSAIHQKGYDFSYTGQTAALYNKAGSGVAKTRFGS --SARACNPGWKS 71
Db 164 YSKQGGGALLYVEGGINFODLEBIRIKYNKAGTFETKILPSLKAQASAGNADAWAS 220

RESULT 9
US-09-556-877-180
; Sequence 180, Application US/09556877
; GENERAL INFORMATION:
; APPLICANT: Probst, Peter
; APPLICANT: Bhateria, Ajay
; APPLICANT: Fling, Steve
; APPLICANT: Maisonneuve, Jeff
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND FILE REFERENCE: 210121.469C5
; CURRENT APPLICATION NUMBER: US/09/556,877
; CURRENT FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 305

Query Match 15.8%; Score 67.5; DB 4; Length 1752;
Best Local Similarity 35.1%; Pred. No. 31;
Matches 20; Conservative 5; Mismatches 29; Indels 3; Gaps 1;

Qy 18 YSKCGCSAIHQKGYDFSYTGQTAALYNKAGSGVAKTRFGS --SARACNPGWKS 71
Db 346 YSKQGGGALLYVEGGINFODLEBIRIKYNKAGTFETKILPSLKAQASAGNADAWAS 402

RESULT 10
US-09-620-412C-180
; Sequence 180, Application US/09620412C
; GENERAL INFORMATION:
; APPLICANT: Steven P. Fling
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND FILE REFERENCE: 210121.469C7
; CURRENT APPLICATION NUMBER: US/09/620,412C
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
; SEQ ID NO: 180

Query Match 15.8%; Score 67.5; DB 4; Length 1752;
Best Local Similarity 35.1%; Pred. No. 31;
Matches 20; Conservative 5; Mismatches 29; Indels 3; Gaps 1;

Qy 18 YSKCGCSAIHQKGYDFSYTGQTAALYNKAGSGVAKTRFGS --SARACNPGWKS 71
Db 346 YSKQGGGALLYVEGGINFODLEBIRIKYNKAGTFETKILPSLKAQASAGNADAWAS 402

RESULT 11
US-09-598-419-180
; Sequence 180, Application US/09598419
; Patent No. 6563856
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND FILE REFERENCE: 210121.469C6
; CURRENT APPLICATION NUMBER: US/09/598,419
; CURRENT FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 357
; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
; SEQ ID NO: 180

Query Match 15.8%; Score 67.5; DB 4; Length 1752;
Best Local Similarity 35.1%; Pred. No. 31;
Matches 20; Conservative 5; Mismatches 29; Indels 3; Gaps 1;

Qy 18 YSKCGCSAIHQKGYDFSYTGQTAALYNKAGSGVAKTRFGS --SARACNPGWKS 71
Db 346 YSKQGGGALLYVEGGINFODLEBIRIKYNKAGTFETKILPSLKAQASAGNADAWAS 402

RESULT 12
US-09-252-991A-28403
Sequence 28403, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al., NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.126
CURRENT APPLICATION NUMBER: US/09/252,991A
* CURRENT FILING DATE: 1999-02-18
PRIORITY APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 28403
LENGTH: 115
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28403

Query Match Score 66; DB 4; Length 115;
Best Local Similarity 30.0%; Pred. No. 2;
Matches 24; Conservative 3; Mismatches 29; Indels 24; Gaps 4;
Qy 2 AFTVWGPCCNNRA---BRYSKC-----GCSAIHOKGGYDFSYTGTQALY 44
Db 42 ATACWRPTCNRCSAAWESTSRCTWPTTTATASPRNCSPAITKAG----CGSPACS 96
Qy 45 NKAGGSCVAKTREGSSARAC 64
Db 97 SMVGCSRKRTR--CSARSC 114

RESULT 13
US-09-699-266A-13
Sequence 13, Application US/09699266A
Patent No. 6559354
GENERAL INFORMATION:
APPLICANT: Ma, Hongchang
APPARTANT: Morakinyo, Layo O.
APPLICANT: Odell, Joan T.
APPLICANT: Orozco Jr., Emilie M.
APPLICANT: Rafalski, J. Antoni
TITLE OF INVENTION: TRANSCRIPTION AND GENE EXPRESSION REGULATORS
FILE REFERENCE: BBL164 US NA
CURRENT APPLICATION NUMBER: US/09/699,266A
CURRENT FILING DATE: 2000-10-27
PRIORITY APPLICATION NUMBER: PCT/US99/08385
PRIOR FILING DATE: 1999-04-16
PRIOR FILING DATE: 1999-04-27
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Microsoft Office 97
SEQ ID NO 13
LENGTH: 856
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-699-266A-13

Query Match Score 66; DB 4; Length 856;
Best Local Similarity 21.7%; Pred. No. 21;
Matches 20; Conservative 13; Mismatches 37; Indels 22; Gaps 3;
Qy 4 TW\$--GPGCNAERAERYSRKGCSAIHOKGGYDFSYTGTQALYRAGSGVAKTRG--- 58
Db 592 SWMKRIAGGNQSKQYTPCGCLSM---CGKDCPCLTNETCEKYCCGSKCKNRFRGCH 648

RESULT 14
US-09-252-991A-16655
Sequence 16655, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al., NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIORITY APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 16655
LENGTH: 977
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16655

Query Match Score 66; DB 4; Length 977;
Best Local Similarity 31.6%; Pred. No. 24;
Matches 24; Conservative 6; Mismatches 26; Indels 20; Gaps 5;

Qy 9 PGCMNRAERAERYSKC---CSAIHOKGGYDFSYTGTQALYRAG---AG-----CSGVAK 54
Db 179 PGWQREQAQRERRAGVCRATRTG----AGDRPASQDRPDEGROATHPAFQLCRGNRR 233

Qy 55 TRFGSSARACNP-FGW 69
Db 234 HRSQGPSPSQQPEMGW 249

RESULT 15
US-07-857-224B-105
Sequence 105, Application US/0785724B
Patent No. 5958784
GENERAL INFORMATION:
APPLICANT: Benner, Steven A.
TITLE OF INVENTION: Predicting Folded Structures of Proteins
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADRESSEE: Steven A. Benner
STREET: Hadlaubstrasse 151
CITY: Zurich
STATE: none
COUNTRY: Switzerland
ZIP: (note: this is an international post code) CH-8092
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.0
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/857,224B
FILING DATE: 03/25/92
CLASSIFICATION: 436
PRIOR APPLICATION DATA: none
TELECOMMUNICATION INFORMATION:
TELEX: none
TELEPHONE: (International) 41 1 632 2830
INFORMATION FOR SEQ ID NO: 105:
SEQUENCE CHARACTERISTICS:
LENGTH: 111
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: protein
ORIGINAL SOURCE:

ORGANISM: tobacco
FEATURE: Pathogenesis related protein; Table 17 Row 1
PUBLICATION INFORMATION:
AUTHORS: Cutt, J. R.
AUTHORS: Dixon, D. C.
AUTHORS: Carr, J. P.
AUTHORS: Klessig, D. F.
TITLE: Isolation and nucleotide sequence of cDNA clones for the pathogenesis related proteins of *Nicotiana tabacum* induced by TMV infection.
JOURNAL: Nucleic Acids Research
VOLUME: 16
PAGES: 9861
DATE: 1988
US-07-857-224B-105

Query Match 15.3%; Score 65.5; DB 2; Length 111;
Best Local Similarity 31.2%; Pred. No. 2.2;
Matches 30; Conservative 5; Mismatches 24; Indels 37; Gaps 8;

Qy	13 NRAERY--SKCG-CSAIHQ-----KGCGYDFSTYTGCTVA-----LYNKA--GCGGV 52
Db	9 SRAONYANSRAGDNLIHGAGENIAKGGDF--TGRAAVQLWSERPPSYNYATNOCVGG 66
Qy	53 AK-----TREGSSARACNPFEGHKSIPIQC 76
Db	67 KKCRHYTOVWRNSVRLGGGRARCNNGWW---FTSC 99

Search completed: November 10, 2004, 19:45:38
Job time : 28 secs



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DB protein - protein search, using sw model

Run on: November 10, 2004, 19:42:13 ; Search time 94.5 Seconds (without alignments)

284.076 Million cell updates/sec

Query: US-09-882-434A-20

Sequence: 426 1 SAFTIVSGFGCNCNRARYSK.....EGSSARACNPPFGWKSIFIQC 76

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1566620 seqs, 353225386 residues

Total number of hits satisfying chosen parameters: 1566620

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 10%
Maximum Match 100%
Listing First 45 summaries

Published Applications_AA:
 1: /cgn2_6/_ptodata/1/_pubpa/US07_PUBCOMB.pep:
 2: /cgn2_6/_ptodata/1/_pubpa/_PCT_NEW_PUB.pep:
 3: /cgn2_6/_ptodata/1/_pubpa/_US06_NEWW_PUB.pep:
 4: /cgn2_6/_ptodata/1/_pubpa/_US06_PUBCOMB.pep:
 5: /cgn2_6/_ptodata/1/_pubpa/_US07_NEW_PUB.pep:
 6: /cgn2_6/_ptodata/1/_pubpa/_PCUTS_PUBCOMB.pep:
 7: /cgn2_6/_ptodata/1/_pubpa/_US08_NEW_PUB.pep:
 8: /cgn2_6/_ptodata/1/_pubpa/_US08_PUBCOMB.pep:
 9: /cgn2_6/_ptodata/1/_pubpa/_US09A_PUBCOMB.pep:
 10: /cgn2_6/_ptodata/1/_pubpa/_US09B_PUBCOMB.pep:
 11: /cgn2_6/_ptodata/1/_pubpa/_US09C_PUBCOMB.pep:
 12: /cgn2_6/_ptodata/1/_pubpa/_US09_NEW_PUB.pep:
 13: /cgn2_6/_ptodata/1/_pubpa/_US10A_PUBCOMB.pep:
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 16: /cgn2_6/_ptodata/1/_pubpa/_US10D_PUBCOMB.pep:
 17: /cgn2_6/_ptodata/1/_pubpa/_US10_NEW_PUB.pep:
 18: /cgn2_6/_ptodata/1/_pubpa/_US11_NEW_PUB.pep:
 19: /cgn2_6/_ptodata/1/_pubpa/_US60_NEW_PUB.pep:
 20: /cgn2_6/_ptodata/1/_pubpa/_US60_PUBCOMB.pep:

Database : -

Result 1
US-09-882-434A-20
Sequence 20, Application US/09882434A.
; Sequence 20, Application US/09882434A.
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goultier, Kenneth C.
; APPLICANT: Green, Jodie Lynn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULIN18_1CP1CL
; CURRENT APPLICATION NUMBER: US/09-882-434A
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 20
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Mi6K/54 variant. Variant MiAMP1 protein
; OTHER INFORMATION: Mi6K/54V containing a Lysine at amino acid 46 and
; OTHER INFORMATION: a Valine at amino acid 54.
US-09-882-434A-20

Query Match Length DB ID Description

No.	Score	Query	Match	Length	DB ID	Description
1	426	100.0	76	9	US-09-882-434A-20	Sequence 20, Appl
2	422	99.1	76	9	US-09-882-434A-18	Sequence 18, Appl
3	420	98.5	76	9	US-09-882-434A-21	Sequence 21, Appl
4	419	98.4	76	9	US-09-882-434A-17	Sequence 17, Appl
5	416	97.7	76	9	US-09-882-434A-19	Sequence 19, Appl
6	415	97.4	102	9	US-09-882-434A-1	Sequence 1, Appl
7	411	96.5	76	9	US-09-882-434A-15	Sequence 15, Appl
8	411	96.5	76	9	US-09-882-434A-16	Sequence 16, Appl
9	169.5	39.8	116	17	US-10-425-115-231061	Sequence 251061,
10	79.5	18.7	500	15	US-10-424-599-214772	Sequence 214772,
11	72	16.9	92	16	US-10-424-599-184834	Sequence 184834,
12	72	16.9	174	15	US-10-424-599-233846	Sequence 253346,
13	71.5	16.8	486	9	US-09-801-368-154	Sequence 154, App

Summary

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Summaries

No.	Score	Query	Match	Length	DB ID	Description
1	426	100.0	76	9	US-09-882-434A-20	Sequence 20, Appl
2	422	99.1	76	9	US-09-882-434A-18	Sequence 18, Appl
3	420	98.5	76	9	US-09-882-434A-21	Sequence 21, Appl
4	419	98.4	76	9	US-09-882-434A-17	Sequence 17, Appl
5	416	97.7	76	9	US-09-882-434A-19	Sequence 19, Appl
6	415	97.4	102	9	US-09-882-434A-1	Sequence 1, Appl
7	411	96.5	76	9	US-09-882-434A-15	Sequence 15, Appl
8	411	96.5	76	9	US-09-882-434A-16	Sequence 16, Appl
9	169.5	39.8	116	17	US-10-425-115-231061	Sequence 251061,
10	79.5	18.7	500	15	US-10-424-599-214772	Sequence 214772,
11	72	16.9	92	16	US-10-424-599-184834	Sequence 184834,
12	72	16.9	174	15	US-10-424-599-233846	Sequence 253346,
13	71.5	16.8	486	9	US-09-801-368-154	Sequence 154, App

Query Match Best Local Similarity 100.0%; Score 426; DB 9; Length 76;
Matches 76; Conservative 0; Min matches 0; Gaps 0; Indels 0;

QY 1 SAFTVWSGPGNRAERYSKCGCSAIIHQKGGYDFSYTQTAALYNKAGCSCGAVAVTRFGSS 60
 Db 1 SAFTVWSGPGNRAERYSKCGCSAIIHQKGGYDFSYTQTAALYNKAGCSCGAVAVTRFGSS 60

QY 61 ARACNPFGWKSIFIQC 76
 Db 61 ARACNPFGWKSIFIQC 76
 61 ARACNPFGWKSIFIQC 76

RESULT 2
 US-09-882-434A-21
 ; Sequence 18, Application US/09882434A
 ; Patent No. US20020108144A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Manners, John M.
 ; APPLICANT: Marcus, John Paul
 ; APPLICANT: Goulter, Kenneth C.
 ; APPLICANT: Green, Jodie Lynn
 ; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
 ; FILE REFERENCE: CULIN18 1CP1C1
 ; CURRENT APPLICATION NUMBER: US/09/882,434A
 ; CURRENT FILING DATE: 2001-06-15
 ; PRIOR APPLICATION NUMBER: 09/364395
 ; PRIOR FILING DATE: 1999-07-30
 ; PRIOR APPLICATION NUMBER: 09/117615
 ; PRIOR FILING DATE: 1998-11-09
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00052
 ; LENGTH: 76
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Mi54V variant, Variant MiAMP1 protein Mi54V
 ; OTHER INFORMATION: containing a Valine at amino acid 54 (used primer
 ; OTHER INFORMATION: from SEQ ID NO:11 to produce).
 US-09-882-434A-18

Query Match 99.1%; Score 422; DB 9; Length 76;
 Best Local Similarity 98.7%; Pred. No. 3..8e-12;
 Matches 75; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGNRAERYSKCGCSAIIHQKGGYDFSYTQTAALYNKAGCSCGAVAVTRFGSS 60
 Db 1 SAFTVWSGPGNRAERYSKCGCSAIIHQKGGYDFSYTQTAALYNQAGCSCGAVAVTRFGSS 60

QY 61 ARACNPFGWKSIFIQC 76
 Db 61 ARACNPFGWKSIFIQC 76

RESULT 3
 US-09-882-434A-21
 ; Sequence 21, Application US/09882434A
 ; Patent No. US20020108144A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Manners, John M.
 ; APPLICANT: Marcus, John Paul
 ; APPLICANT: Goulter, Kenneth C.
 ; APPLICANT: Green, Jodie Lynn
 ; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
 ; FILE REFERENCE: CULIN18 1CP1C1
 ; CURRENT APPLICATION NUMBER: US/09/882,434A
 ; CURRENT FILING DATE: 2001-06-15
 ; PRIOR APPLICATION NUMBER: 09/364395
 ; PRIOR FILING DATE: 1999-07-30
 ; PRIOR APPLICATION NUMBER: 09/117615
 ; PRIOR FILING DATE: 1998-11-09
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00052
 ; CURRENT FILING DATE: 1997-01-31
 ; PRIOR APPLICATION NUMBER: AU PN 7802
 ; PRIOR FILING DATE: 1996-01-31
 ; NUMBER OF SEQ ID NOS: 21
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 18
 ; LENGTH: 76
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Mi44K variant, Variant MiAMP1 protein Mi44K
 ; OTHER INFORMATION: containing a Lysine at amino acid 46 (used primer
 ; OTHER INFORMATION: from SEQ ID NO:10 to produce).
 US-09-882-434A-17

Query Match 98.4%; Score 419; DB 9; Length 76;
 Best Local Similarity 98.7%; Pred. No. 8..7e-42;
 Matches 75; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGNRAERYSKCGCSAIIHQKGGYDFSYTQTAALYNKAGCSCGAVAVTRFGSS 60
 Db 1 SAFTVWSGPGNRAERYSKCGCSAIIHQKGGYDFSYTQTAALYNQAGCSCGAVAVTRFGSS 60

QY 61 ARACNPFGWKSIFIQC 76
 Db 61 ARACNPFGWKSIFIQC 76

RESULT 5
US-09-882-434A-19
Sequence 19, Application US/09882434A
Patent No. US2010108144A1
GENERAL INFORMATION:
APPLICANT: Manners, John M.
APPLICANT: Marcus, John Paul
APPLICANT: Goultier, Kenneth C.
TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
FILE REFERENCE: CULLN18.1CP1C1
CURRENT APPLICATION NUMBER: US/09/882,434A
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 09/364395
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: 09/117615
PRIOR FILING DATE: 1998-11-09
PRIOR APPLICATION NUMBER: PCT/AU97/00052
PRIOR FILING DATE: 1997-01-31
PRIOR APPLICATION NUMBER: AU PN 7802
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 19
LENGTH: 76
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Mi54K variant. Variant MiAMP1 protein Mi54K
OTHER INFORMATION: Mi54K variant. Variant MiAMP1 protein Mi54K
OTHER INFORMATION: containing a Lysine at amino acid 54 (used primer
from SEQ ID NO:12 to produce).
US-09-882-434A-19

Query Match 97.4%; Score 416; DB 9; Length 76;
Best Local Similarity 97.4%; Pred. No. 2e-41;
Matches 74; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SAFTVWSGPGCNNRAERYSKCGSATHQKGYDFSYTGTAALYNKAGCGTVAUTRGSS 60
Db 1 SAFTVWSGPGCNNRAERYSKCGSATHQKGYDFSYTGTAALYNQAGCGVAKTRGSS 60

Qy 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

RESULT 6
US-09-882-434A-1
Sequence 1, Application US/09882434A
Patent No. US20108144A1
GENERAL INFORMATION:
APPLICANT: Manners, John M.
APPLICANT: Marcus, John Paul
APPLICANT: Goultier, Kenneth C.
TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
FILE REFERENCE: CULLN18.1CP1C1
CURRENT APPLICATION NUMBER: US/09/882,434A
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 09/364395
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: 09/364395
PRIOR FILING DATE: 1998-11-09
PRIOR APPLICATION NUMBER: PCT/AU97/00052
PRIOR FILING DATE: 1997-01-31
PRIOR APPLICATION NUMBER: AU PN 7802
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 102

RESULT 7
US-09-882-434A-15
Sequence 15, Application US/09882434A
Patent No. US2002108144A1
GENERAL INFORMATION:
APPLICANT: Manners, John M.
APPLICANT: Marcus, John Paul
APPLICANT: Goultier, Kenneth C.
APPLICANT: Green, Jodie Lyn
TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
FILE REFERENCE: CULLN18.1CP1C1
CURRENT APPLICATION NUMBER: US/09/882,434A
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 09/364395
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: PCT/AU97/00052
PRIOR FILING DATE: 1997-01-31
PRIOR APPLICATION NUMBER: AU PN 7802
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 15
LENGTH: 76
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: M128K variant. Variant MiAMP1 protein Mi38K
OTHER INFORMATION: containing a Lysine at amino acid 28 (used primer
from SEQ ID NO:8 to produce).
US-09-882-434A-15

Query Match 96.5%; Score 411; DB 9; Length 76;
Best Local Similarity 96.1%; Pred. No. 7.e-41;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SAFTVWSGPGCNNRAERYSKCGSATHQKGYDFSYTGTAALYNKAGCGTVAUTRGSS 60
Db 1 SAFTVWSGPGCNNRAERYSKCGSATHQKGYDFSYTGTAALYNQAGCGVAKTRGSS 60

Qy 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

RESULT 8
US-09-882-434A-16
Sequence 16, Application US/09882434A
Patent No. US2002108144A1
GENERAL INFORMATION:
APPLICANT: Manners, John M.
APPLICANT: Marcus, John Paul
APPLICANT: Goultier, Kenneth C.
APPLICANT: Green, Jodie Lyn
TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
FILE REFERENCE: CULLN18.1CP1C1
CURRENT APPLICATION NUMBER: US/09/882,434A
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 09/364395
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: PCT/AU97/00052
PRIOR FILING DATE: 1997-01-31
PRIOR APPLICATION NUMBER: AU PN 7802
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 102

FILE REFERENCE: CULIN18.1CPI1C1
; CURRENT FILING DATE: US/09/882,434A
; PRIORITY NUMBER: 09/05-15
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 16
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Mi39K variant. Variant MiAMP1 protein Mi39K.
; OTHER INFORMATION: containing a Lysine at amino acid 39 (used primer
; OTHER INFORMATION: from SEQ ID NO:9 to produce).
; US-09-882-434A-16

Query Match 96.5%; Score 411; DB 9; Length 76;
Best Local Similarity 96.1%; Pred. No. 7.e-41;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 1 SAFTW\$GPGCNRAFRYSKCGCSAATHQKGYDFSYTGTAALYNKA[GCS]VAHTRGSS 60
Db 1 SAFTW\$GPGCNRAFRYSKCGCSAATHQKGYDFSYTGTAALYNKA[GCS]VAHTRGSS 60
Qy 61 ARACNPFGWKSIFIQC 76
Db - 61 ARACNPFGWKSIFIQC 76

RESULT 9
; Sequence 251061, Application US/10425115
; Publication No. US2004021427A1

; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222) B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO: 251061
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_160554C.1.pep
; US-10-425-115-251061

Query Match 39.8%; Score 169.5; DB 17; Length 116;
Best Local Similarity 38.8%; Pred. No. 4.2e-12;
Matches 31; Conservative 12; Mismatches 32; Indels 5; Gaps 2;
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4530_8178C.1.pep
; US-10-425-115-251061

Query Match 1 SATTW\$GPGCNRAFRYSYTGTAALYNKA[GCS]VAHTRGSS 56
Db 38 SYLTWSGPGCNTGTGHIAS[GCG]NLRFHGGHENERGETATLYSQPCVGTPYQV 97
Qy 57 FGSSARA[CNPFGWKSIFIQC 76
Db 98 F-EDTOACDFGWHSHIDC 116

RESULT 10
; Sequence 214772, Application US/10424599
; Publication No. US2004031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223) B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO: 214772
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(500)
; OTHER INFORMATION: unsure at all xaa locations
; PEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_35966C.1.pep
; US-10-424-599-214772

Query Match 18.7%; Score 79.5; DB 15; Length 500;
Best Local Similarity 28.9%; Pred. No. 0.83;
Matches 22; Conservative 6; Mismatches 29; Indels 19; Gaps 5;
; OTHER INFORMATION: PAT_MRT3847_35966C.1.pep
Qy 8 GPGCNRAERYSKCGCSAITHQKGYDFSYTGTAALYNKA[GCS]VAHTRGSS 62
Db 145 GSGCRG-----GCRVYHAS[NR]VSAAVEFGHLHSACSCPGVX[C-GIKSKRFG--K 192
Qy 63 ACNPFGWKSIFIQC 76
Db 193 ICKPLTWKHGDJFLMC 208

RESULT 11
; Sequence 184834, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbaruk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221) B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO: 184834
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_8178C.1.pep
; US-10-437-963-184834

Query Match 16.9%; Score 72; DB 16; Length 92;
Best Local Similarity 33.8%; Pred. No. 1.1;
Matches 22; Conservative 8; Mismatches 21; Indels 14; Gaps 4;
Qy 5 VWSGSRTPVCNSNVHVDAA[GCHGATHRRFRDAGT]HGRGDGG-TROSGDD 77
Db 19 VWSGSRTPVCNSNVHVDAA[GCHGATHRRFRDAGT]HGRGDGG-TROSGDD 77

Query 52 VAVTRR 56
 Database 78 VVVERR 82

RESULT 12
 US-10-424-599-253846
 ; Sequence 253846, Application US/10424599
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa Thomas J
 ; APPLICANT: Zhou Yihua
 ; APPLICANT: Cao Yongwei
 ; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 39-21(53223)B
 ; CURRENT APPLICATION NUMBER: US/10/424,599
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 285684
 ; SEQ ID NO 253846
 ; LENGTH: 174
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: PAT_MRT3847_71246C.1.pep
 ; US-10-424-599-253846

Query Match 16.9%; Score 72; DB 15; Length 174;
 Best Local Similarity 42.4%; Prd. No. 2.1;
 Matches 14; Conservative 7; Mismatches 12; Indels 0; Gaps 0;

Query 14 RAERYSKCGCSAIIHQKGGYDFSYTGTAALINKAGSGVAVTRFGSSARACNP---FGW 69
 Database 56 RAARLSCGVAAILCKKGKYTAHVAGDSVENK 88

RESULT 13
 US-09-001-366-154
 ; Sequence 154, Application US/09801368
 ; PATENT No. USP0020128250A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Busby, Robert
 ; APPLICANT: Cali, Brian
 ; APPLICANT: Hecht, Peter
 ; APPLICANT: Holtzman, Doug
 ; APPLICANT: Madden, Kevin
 ; APPLICANT: Maxon, Mary
 ; APPLICANT: Milne, Todd
 ; APPLICANT: No. US20020128250A1man, Thea
 ; APPLICANT: Royer, John
 ; APPLICANT: Salama, Sozie
 ; APPLICANT: Sherman, Amir
 ; APPLICANT: Silvers, Jeff
 ; APPLICANT: Summers, Brice
 ; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
 ; FILE REFERENCE: 109272.147
 ; CURRENT APPLICATION NUMBER: US/09/801,368
 ; CURRENT FILING DATE: 2001-03-07
 ; PRIOR APPLICATION NUMBER: US 09/487,558
 ; PRIOR FILING DATE: 2000-01-19
 ; PRIOR APPLICATION NUMBER: US 60/160,587
 ; PRIOR FILING DATE: 1999-10-20
 ; NUMBER OF SEQ ID NOS: 440
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 154
 ; LENGTH: 486
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 ; US-09-801-368-154

Query Match 16.8%; Score 71.5; DB 9; Length 486;

Best Local Similarity 31.7%; Pred. No. 7.1;
 Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

Qy 14 RAERYSKCGCSAIIHQKGGYDFSYTGTAALINKAGSGVAVTRFGSSARACNP---FGW 69
 Db 391 RAARLSCGVAAILCKKGKYTAHVAGDSVENK 88

RESULT 14
 US-10-369-493-21896
 ; Sequence 21896, Application US/10369493
 ; Publication No. US20030233675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hinkle, Gregory J.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Goldinan, Barry S.
 ; APPLICANT: Chen, Xianfeng
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF PLANTS WITH IMPROVED PROPERTIES
 ; FILE REFERENCE: 38-10/52052(B)
 ; CURRENT APPLICATION NUMBER: US/10/369,493
 ; CURRENT FILING DATE: 2003-03-28
 ; PRIOR APPLICATION NUMBER: US 60/360,039
 ; PRIOR FILING DATE: 2002-02-21
 ; NUMBER OF SEQ ID NOS: 47374
 ; SEQ ID NO 21896
 ; LENGTH: 486
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 ; US-10-369-493-21896

Query Match 16.8%; Score 71.5; DB 14; Length 486;
 Best Local Similarity 31.7%; Pred. No. 7.1;
 Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

Qy 14 RAERYSKCGCSAIIHQKGGYDFSYTGTAALINKAGSGVAVTRFGSSARACNP---FGW 69
 Db 391 RAARLSCGVAAILCKKGKYTAHVAGDSVENK 88

RESULT 15
 US-10-369-493-3800
 ; Sequence 3800, Application US/10369493
 ; Publication No. US20030233675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Hinkle, Gregory J.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Goldinan, Barry S.
 ; APPLICANT: Chen, Xianfeng
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF PLANTS WITH IMPROVED PROPERTIES
 ; FILE REFERENCE: 38-10/52052(B)
 ; CURRENT APPLICATION NUMBER: US/10/369,493
 ; CURRENT FILING DATE: 2003-03-28
 ; PRIOR APPLICATION NUMBER: US 60/360,039
 ; PRIOR FILING DATE: 2002-02-21
 ; NUMBER OF SEQ ID NOS: 47374
 ; SEQ ID NO 3800
 ; LENGTH: 557
 ; TYPE: PRT
 ; ORGANISM: Neurospora crassa
 ; FEATURE:
 ; NAME/KEY: unsure
 ; LOCATION: (1..557)
 ; OTHER INFORMATION: unsure at all Xaa locations
 ; US-10-369-493-3800

Query Match 16.7%; Score 71; DB 14; Length 557;
 Best Local Similarity 42.4%; Pred. No. 9.4;
 Matches 14; Conservative 6; Mismatches 13; Indels 0; Gaps 0;

Query Match 16.8%; Score 71.5; DB 9; Length 486;

Best Local Similarity 31.7%; Pred. No. 7.1;
 Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY 14 RAERYSKCGCSATHQKGGDFSYTGQIAALYNK 46
| | | | | | ; | | | ; | | | ; | | | ; | | |
463 RAIRLISACGTAISKKKGIRQCHVADGSVFNK 495
DB

Search completed: November 10, 2004, 20:00:38
Job time : 105.5 secs

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OM protein - protein search, using sw model 1

Run on: November 10, 2004, 19:34:00 ; Search time 28 Seconds
(without alignments)
180.006 Million cell. updates/sec

Title: US-09-882-434A-20

Perfect score: 426

Sequence: 1 SAFTYNSGPGCENNRAEYRSK..... FGSSARACNPFGMKSIFIQC 76

Scoring table: BIOJSM62

Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:
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 2: /cgm2_6/potodata/1/iaa/5B_COMBO.dep:/*
 3: /cgm2_6/potodata/1/iaa/6A_COMBO.dep:/*
 4: /cgm2_6/potodata/1/iaa/6B_COMBO.dep:/*
 5: /cgm2_6/potodata/1/iaa/PCTUS_COMBO.dep:/*
 6: /cgm2_6/potodata/1/iaa/backfile1.pep:/*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	73.5	17.3	486	1	US-07-872-678A-48		Sequence 48, Appl
2	73	17.1	491	4	US-09-248-792A-17049		Sequence 17049, Appl
3	71.5	16.8	486	4	US-08-613A-2		Sequence 2, Appli
4	71.5	16.8	486	4	US-08-622-191-8		Sequence 8, Appli
5	68	16.0	486	4	US-08-622-191-7		Sequence 7, Appli
6	67	15.7	115	4	US-09-252-992A-28403		Sequence 28403, A
7	66.5	15.6	585	4	US-09-320-4-2C-337		Sequence 337, APP
8	66.5	15.6	585	4	US-09-598-419-337		Sequence 337, APP
9	66.5	15.6	908	4	US-08-711-44		Sequence 44, Appli
10	66.5	15.6	1752	4	US-09-556-B77-180		Sequence 180, APP
11	66.5	15.6	1752	4	US-09-620-412C-180		Sequence 180, APP
12	66	15.6	1752	4	US-09-538-902-900		Sequence 180, APP
13	66	15.5	1576	4	US-09-562-702A-24		Sequence 24, Appli
14	66	15.5	1576	4	US-09-561-818A-24		Sequence 24, Appli
15	66	15.5	1584	4	US-09-552-702A-28		Sequence 28, Appli
16	66	15.5	1609	4	US-09-562-702A-22		Sequence 22, Appli
17	66	15.5	1609	4	US-09-561-818A-22		Sequence 22, Appli
18	66	15.5	1609	4	US-09-538-902-900		Sequence 900, APP
19	66	15.5	1617	4	US-09-562-702A-26		Sequence 26, Appli
20	65.5	15.4	459	4	US-09-128-352-4648		Sequence 4648, Ap
21	65.5	15.4	861	4	US-09-556-12		Sequence 12, Appli
22	65.5	15.4	861	4	US-09-538-556-12		Sequence 2, Appli
23	63.5	14.9	902	1	US-08-701-846-2		Sequence 24413, A
24	62.5	14.7	156	1	US-09-252-991A-24413		Sequence 4, Appli
25	62.5	14.7	1019	1	US-08-296-014A-4		Sequence 4, Appli
26	62.5	14.7	1019	2	US-08-596-405-4		Sequence 4, Appli
27	62.5	14.7	1019	2	US-08-877-620-4		Sequence 19245, A

ALIGNMENTS

RESULT 1
US-07-872-678A-48
 ; Sequence 48, Application US/07872678A
 ; Patent No. 5541060
 ; GENERAL INFORMATION:
 ; APPLICANT: Bell, Graeme, et al.
 ; TITLE OF INVENTION: DETECTION OF EARLY-ONSET
 ; NUMBER OF SEQUENCES: NON-INSULIN-DEPENDENT DIABETES MELLITUS
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: Post Office Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/872,678A
 ; FILING DATE: 22-APRIL-1992
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Coughlin, Daniel F.
 ; REGISTRATION NUMBER: 36,111
 ; REFERENCE/DOCKET NUMBER: ARCD016
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 713-787-1400
 ; TELEFAX: 44-713-789-2679
 ; TELEX: 79-0324
 ; INFORMATION FOR SEQ ID NO: 48:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 486 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: Linear
 ; MOLECULE TYPE: DNA (genomic)
 ; Sequence 180, DNA (genomic)
 ; US-07-872-678A-48
 ; Query Match %
 ; Best Local Similarity 17.3%; Score 73.5%; DB 1; Length 486;
 ; Matches 24; Conservative 4; Mismatches 18; Indels 15; Gaps 4;
 Qy 14 RAERYSKCGCSAIHOKGGIDFSYTGQTAALYNKCGSVAVTRF-GSARACNP---FG 68
 Db 391 RAARLUSVCGTAACIKRGTK--IGHIA-----DGSVSTRPGKEKAANALKDING 440

RESULT 7
US-09-620-412C-337
Sequence 337, Application US/09620412C
Patent No. 6,448,234
GENERAL INFORMATION:
APPLICANT: Steven P. Filing
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
FILE REFERENCE: 210121.469C7
CURRENT APPLICATION NUMBER: US/09/620,412C
CURRENT FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 363
SOFTWARE: FastSEQ for Windows Version 3.0/4.0
SEQ ID NO 337
LENGTH: 585
TYPE: PRT
ORGANISM: Chlamydia trachomatis
US-09-620-412C-337

Query Match 15.6%; Score 66.5; DB 4; Length 585;
Best Local Similarity 31.6%; Pred. No. 12; Indels 3; Gaps 1;
Matches 18; Conservative 8; Mismatches 28;

Qy , 18 YSKCGCSAIIHQKGGYDFSYTGTGSSAACNPFGWKS 71
Db , 164 YSKQGGALIYEGGINFOLIEIRIKYNKAGTPEKKITLPSLKQASAGNAWAS 220

RESULT 8
US-09-598-419-337
Sequence 337, Application US/09598419
GENERAL INFORMATION:
APPLICANT: Sheiky, Yasir A.W.
APPLICANT: Scholler, John
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND
FILE REFERENCE: 210121.469C6
CURRENT APPLICATION NUMBER: US/09/598,419
CURRENT FILING DATE: 2000-06-20
NUMBER OF SEQ ID NOS: 357
SOFTWARE: FastSEQ for Windows Version 3.0/4.0
SEQ ID NO 337
LENGTH: 585
TYPE: PRT
ORGANISM: Chlamydia trachomatis
US-09-598-419-337

Query Match 15.6%; Score 66.5; DB 4; Length 585;
Best Local Similarity 31.6%; Pred. No. 12; Indels 3; Gaps 1;
Matches 18; Conservative 8; Mismatches 28;

Qy , 18 YSKCGCSAIIHQKGGYDFSYTGTGSSAACNPFGWKS 71
Db , 164 YSKQGGALIYEGGINFOLIEIRIKYNKAGTPEKKITLPSLKQASAGNAWAS 220

RESULT 9
US-09-714-741-44
Sequence 44, Application US/08714741
GENERAL INFORMATION:
APPLICANT: Briles, David E.
APPLICANT: McDaniel, Larry S.
APPLICANT: Swiatlo, Edwin

APPLICANT: Yoither, Janet
APPLICANT: Crain, Marillyn J.
APPLICANT: Hollingshead, Susan
APPLICANT: Tart, Rebecca
APPLICANT: Brooks-Walter, Alexis
TITLE OF INVENTION: PNEUMOCOCCAL GENES, PORTIONS THEREOF,
TIME OF INVENTION: EXPRESSION PRODUCTS THEREFROM, AND USES OF SUCH GENES,
TITLE OF INVENTION: PORTIONS AND PRODUCTS
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: Curtis, Morris & Safford, P.C.
STREET: 530 Fifth Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.
ZIP: 10036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/714,741
FILING DATE: 16-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Former Esq., William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454312-2460
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 908 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-714-741-44

Query Match 15.6%; Score 66.5; DB 4; Length 908;
Best Local Similarity 34.4%; Pred. No. 19; Indels 3; Gaps 2;
Matches 22; Conservative 6; Mismatches 33;

Qy 1 SAFTVWSGPGCNNRAEYYSKCGCSAIIHQKGGYDFSYTGTGSSAACNPFGWKS 60
Db 249 AAAATTAAGC -AAGGAAAAGCGAAAGTGAAGCTGCTAA-AAAAGCTGAATTGAAA 305
Qy 61 ARAC 64
Db 306 AAC 309

RESULT 10
US-09-556-877-180
Sequence 180, Application US/09556877
PATENT NO. 6,432,916
GENERAL INFORMATION:
APPLICANT: Probst, Peter
APPLICANT: Bhatia, Ajay
APPLICANT: Skeily, Yasir
APPLICANT: Flines, Steve
APPLICANT: Maisonneuve, Jeff
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
FILE REFERENCE: 210121.469C5
CURRENT APPLICATION NUMBER: US/09/556,877
CURRENT FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 305
SOFTWARE: FastSEQ for Windows Version 3.0/4.0
SEQ ID NO 180
LENGTH: 175

; TYPE: PRT
; ORGANISM: Chlamydia
US-09-555-877-180

Query Match 15.6%; Score 66.5; DB 4; Length 1752;
Best Local Similarity 31.6%; Pred. No. 41;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

Qy 18 YSKCGCSAITHQKGCGYDFSYTGTQTAALYNKAG--CSGYAVTRFGSSARACNPFGMKS 71
Db. * 346 YSKQGGALYVEGGINFQDLEIRIKYNKAGTFETKITLPSLKAQSAGNADAWAS 402

RESULT 11
US-09-620-412C-180
; Sequence 180, Application US/09620412C
; Patent No. 6448234
; GENERAL INFORMATION:
; APPLICANT: Steven P. Flings
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND
; DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C7-20
; CURRENT APPLICATION NUMBER: US/09/620,412C
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSEQ for Windows Version 3.0/4.0
; SEQ ID NO: 180
; LENGTH: 1752
; TYPE: PRT
; ORGANISM: Chlamydia
US-09-620-412C-180

Query Match 15.6%; Score 66.5; DB 4; Length 1752;
Best Local Similarity 31.6%; Pred. No. 41;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

Qy 18 YSKCGCSAITHQKGCGYDFSYTGTQTAALYNKAG--CSGYAVTRFGSSARACNPFGMKS 71
Db. * 346 YSKQGGALYVEGGINFQDLEIRIKYNKAGTFETKITLPSLKAQSAGNADAWAS 402

RESULT 12
US-09-598-419-180
; Sequence 180, Application US/09598419
; Patent No. 6555856
; GENERAL INFORMATION:
; APPLICANT: Sheiky, Yasir A.W.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND
; DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C6
; CURRENT APPLICATION NUMBER: US/09/598,419
; CURRENT FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 357
; SOFTWARE: FastSEQ for Windows Version 3.0/4.0
; SEQ ID NO: 180
; LENGTH: 1752
; TYPE: PRT
; ORGANISM: Chlamydia
US-09-598-419-180

Query Match 15.6%; Score 66.5; DB 4; Length 1752;
Best Local Similarity 31.6%; Pred. No. 41;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

Qy 18 YSKCGCSAITHQKGCGYDFSYTGTQTAALYNKAG--CSGYAVTRFGSSARACNPFGMKS 71
Db. * 346 YSKQGGALYVEGGINFQDLEIRIKYNKAGTFETKITLPSLKAQSAGNADAWAS 402

RESULT 13
US-09-562-702A-24
; Sequence 24, Application US/09562702A
; Patent No. 6632290
; GENERAL INFORMATION:

; Patent No. 6632290
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562,702A
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 60/155, 945
; PRIOR APPLICATION NUMBER: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143, 289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139, 198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131, 720
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 24
; LENGTH: 1576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-562-702A-24

Query Match 15.5%; Score 66; DB 4; Length 1576;
Best Local Similarity 26.6%; Pred. No. 42;
Matches 21; Conservative 6; Mismatches 40; Indels 12; Gaps 3;

Qy 3 FTWSGPCCNNRAYERSKCGSAIHQKGCGYDFSYTGTQTAALYNKAG--CSGYAVTRFGSS 60
Db 891 YNLQSGQC-----ERCDCHALGSTNGQCDTRGQCECPGTTGQHCRCEVNHFRGFG 943

Qy 61 ARACNPFEGWK--SIFIQC 76
Db 944 PEGCKPCDCDCHPEGSLSIQC 962

RESULT 14
US-09-561-818A-24
; Sequence 24, Application US/09561818A
; Patent No. 6638907
; GENERAL INFORMATION:
; APPLICANT: Kortesmaa, Jarkko
; TITLE OF INVENTION: Laminin 8 and Methods For Its Use
; FILE REFERENCE: 99-274-D
; CURRENT APPLICATION NUMBER: US/09/561,818A
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 24
; LENGTH: 1576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-561-818A-24

Query Match 15.5%; Score 66; DB 4; Length 1576;
Best Local Similarity 26.6%; Pred. No. 42;
Matches 21; Conservative 6; Mismatches 40; Indels 12; Gaps 3;

Qy 3 FTWSGPCCNNRAYERSKCGSAIHQKGCGYDFSYTGTQTAALYNKAG--CSGYAVTRFGSS 60
Db 891 YNLQSGQC-----ERCDCHALGSTNGQCDTRGQCECPGTTGQHCRCEVNHFRGFG 943

Qy 61 ARACNPFEGWK--SIFIQC 76
Db 944 PEGCKPCDCDCHPEGSLSIQC 962

RESULT 15
US-09-562-702A-28
; Sequence 28, Application US/09562702A
; Patent No. 6632290
; GENERAL INFORMATION:

APPLICANT: Yurchenco, Peter
TITLE OF INVENTION: Laminin 2 and Methods for Its Use
FILE REFERENCE: 99-274-B
CURRENT APPLICATION NUMBER: US/09/5652, 702A
CURRENT FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: 60/155, 945
PRIOR FILING DATE: 1999-09-24
PRIOR APPLICATION NUMBER: 60/143, 289
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139, 198
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/131, 720
PRIOR FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 28
LENGTH: 1584
TYPE: PRT
ORGANISM: Homo sapiens
US-09/5652, 702A-28

Query	Match	15.5%	Score	66	DB	4	Length	1584;
Best Local	Similarity	26.6%	Pred. No.	42;				
Matches	21;	Conservative	Mismatches	40;	Indels	12;	Gaps	3;
Y	3	FTWVSGPNCNRAERYSKCGCSAIHKGGYDFSTYQTAALYNKG--CSGVAVTFRGGS	60					
b	891	YNLQQSGC-----ERCDCHALGSTNGQCDIRTGQCECOPGITGQHCCRCEVMHFHFG	943					
Y	61	ARACNPFGWK--SFIQCL	76					
b	944	PEGCPFCDCHEPGSSLSLOC	262					

Search completed: November 10, 2004, 19:45:38
Job time : 29 secs

